1973

- 01-101
- intbd. sltst. and ss., gy., v.f.g., mod. well sorted., occ. silty, 101-201 calcareous, with scattered zones of limonite staining;
- intbd. sltst. and ss., gy. to brn., v.f.g., commonly silty, calcare-201-301 ous, zones of limonite staining common;
- intbd. sltst. and sh., lt. gy. to dk. gy., sh. is silty, darker 301-401 gy. than sltst., calcareous;
- intbd. sltst. and sh., lt. gy. to dk. gy., sh. is silty, trace of 401-501 carbonized plant material, calcareous;
- intbd. sltst. and sh., gy. to dk. gy., trace ss., lt. gy., silty, 501-601 w/ scat. occurrences of pyrite, calcareous;
- intbd. sltst. and sh., gy. to dk. gy., scat. zns. of limonite 601-701 staining, calcareous;
- intbd. sh. and sltst., lt. gy. to dk. gy., sltst. occasionally 70'-80' sandy, calcareous;
- intbd. sh. and sltst., gy. to dk. gy., sltst. is sandy, scat. 801-901 traces of carbonized material, calcareous;
- sltst., gy., sandy, trace carbonized material, calcareous; 901-1001
- sltst., gy., sandy, calcareous; 100'-110'
- sltst., gy., sandy, and intbd. ss., lt. gy. to gy., v.f.g., silty, 110'-120' w/ scattered zns. of limonite staining, calcareous;
- sltst., gy., sandy, and intbd. ss., gy., v.f.g., silty, calc.; 120'-130'
- sltst., gy., slightly sandy, and intbd. ss., ylw.-brn., v.f.g., 130'-140' silty, limonite staining common, slightly calcareous;
- ss., ylw.-brn., limonite staining v. common, v.f.g. to f.g., silty, 140'-150' calcareous, and intbd. siltstone, gy., v. slightly calcareous, fragments of carbonaceous material common in both ss. and sltst.;
- intbd. sltst., gy., sandy, and ss., gy., v.f.g. to f.g., silty, ss. 150'-160' is slightly calcareous;
- ss., gy. to light gy., v.f.g. to f.g., silty, scat. mica flakes, 160'-170' slightly calcareous, and intbd. sltst., gy., sandy, w/ scattered traces carbonaceous material in both ss. and sltst.;
- ss., gy., v.f.g. to f.g., silty, sl. calcareous, poorly sorted, 170'-180' w/ carbonaceous material scattered throughout;
- ss., gy., v.f.g. to f.g., silty, slightly calcareous, carbonaceous 180'-190' material scattered throughout;
- tuffaceous ss., lt. gy. to gy., v.f.g. to f.g., silty, slightly 1901-2001 calcareous, limonite stained zones common;

- 200'-210' tuffaceous ss., gy., v.f.g. to f.g., silty, and interbedded sltst., gy., sandy, slightly calcareous;
- 210'-220' sltst., gy., sandy, calcareous, and intbd. ss., gy., v.f.g. to f.g., tuffaceous;
- intbd. ss. and sltst., gy., ss. is v.f.g. to f.g., silty, sltst. is occasionally sandy, scattered traces of carbonaceous material, slightly calcareous;
- 230'-240' ss., gy., v.f.g. to f.g., slight trace of pyrite, slightly calcareous, and occasional, intbd. marlstone, gy.;
- 240'-250' mrlst., gy., tr. carbonaceous material, and some intbd. ss., gy., v.f.g., silty;
- 250'-260 tuffaceous ss., gy., v.f.g., silty, v. slightly calcareous, and some interbedded maristone, gy.;
- 260'-270' tuffaceous ss., lt. gy. to gy., vifig. to f.g., silty, and intbd. sltst., gy., sandy, slightly calcareous;
- 270'-280' as above
- 280'-290' ss., gy., v.f.g., silty, sl. calcareous, with scattered carbonaceous material;
- 290'-300' tuffaceous ss., gy., v.f.g. to f.g., silty, slightly calcareous, and intbd. sltst., gy., sandy;
- tuffaceous ss., gy. to lt. gy., v.f.lg. to f.g., silty, trace of pyrite, and intbd. sltst., gy., sandy;
- 310'-320' as above
- 320'-330' intbd. ss. and sltst., lt. gy. to gy., ss. is v.f.g., silty, sl. calcareous, sltst. is sandy, calcareous;
- 330'-340' tuffaceous sltst., gy., sandy;
- 340'-350' ss., lt. gy. to gy., v.f.g., and intbd. mrlst., brown, "rusty"-- limonite stained;
- 350'-360' tuffaceous ss., lt. gy., v.f.g., slightly calcareous;
- 360'-370' tuffaceous ss., lt. gy. to gy., v.f.g., silty, and intbd. sltst., gy., sandy;
- 370'-380' intbd. ss. and sltst., as above;
- 380'-390' tuffaceous ss., gy., v.f.g., silty, and intbd. mrlst., lt. gy.;
- 390'-400' tuffaceous ss., gy. to lt. gy., v.f.g., silty, and intbd. sltst., gy., sandy, and intbd. mrlst., lt. gy.;

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tuffaceous ss., lt. gy. to gy., v.f.g., silty, and intbd. sltst.,
400'-410'
              qy., slightly calcareous;
410'-420'
              ss., as above
              tuffaceous ss., gy., v.f.g. to f.g., silty, slightly calcareous;
4201-4301
              ss., as above, and intbd. mrlst., lt. gy.;
4301-4401
              ss., w/ intbd. mrlst., as above;
4401-4501
              tuffaceous ss., gy., v.f.g. to f.g., silty, calcareous;
4501-4601
              tuffaceous ss., gy., v.f.g., silty, and intbd. mrlst., reddish-brn.;
460'-470'
               as above
4701-4801
               tuffaceous ss., gy., v.f.g., silty, slightly calcareous;
4801-4901
               tuffaceous ss., gy., v.f.g., silty, and intbd. mrlst., reddish-
4901-5001
               brn., occ. black;
               mrlst., reddish-brn. to gy., trace carbonaceous material, and some
 500'-510'
               intbd. sandy, siltstone, lt. gy. to gy., calcareous, tuffaceous;
               as above, w/ sandy sitst. more common;
 5101-5201
 5201-5301
               as above
               tuffaceous sandstone, gy. to lt. gy., v.f.g., silty, calcareous,
 530'-540'
               tr. pyrite, and intbd. mrlst., gy. to lt. brn.;
                intbd. ss. and mrlst., as above;
 5401-5501
 550'-560'
                as above
                tuffaceous ss., lt. gy. to gy., v.f.g., silty, calcareous, and
 5601-5701
                interbedded mrlst., gy. to pale reddish-brown (possibly some
                lt. gy. tuff);
                as above
 570'-580'
                intbd. ss. and mrist., as above
 580'-590'
                mrlst., gy. to blk.-brn., and some intbd. ss., lt. gy., v.f.g.,
  5901-6001
                silty, calcareous;
                tuffaceous ss., lt. gy. to gy., v.f.g., silty, calcareous, and
  600'-610'
                intbd. mrlst., gy. to tannish -gy.;
                intbd. ss. and mrist., as above;
  610'-620'
                tuffaceous ss., lt. gy., v.f.g., silty, calcareous, w/ trace
  620'-630'
                of tannish mrlst.;
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tuffaceous ss., lt. gy., v.f.g., tr. mtx. pyrite, calcareous, and
630-6401
              intbd. mrlst., tan to reddish-brown;
              mrlst., as above, with some intbd. ss., as above;
640-6501
              mrlst., lt. gy. to brn.-blk., w/ sl. tr. ss., as above;
6501-6601
660'-670'
              as above
6701-6801
              intbd. mrlst. and ss., as above;
              mrlst., dk. gy. to brn.-blk., w/ some intbd. tuffaceous ss., lt.
6801-6901
              gy., v.f.g., calcareous;
6901-7001
              mrlst., gy.-tn. to blk.;
              as above
700'-710'
710'-720'
              mrlst., brn.-tn. to blk.;
               as above
720'-730'
               mrlst., as above, commonly with very fine banding of brn.-tn.
730'-740'
               and blk. colored layers:
               as above, w/ tr. white material along bedding plane (analcite?);
7401-7501
750'-760'
               mrlst., qy.-brn. to blk.;
               as above
760'-770!
               as above
 770'-780'
               mrlst., brn.-gy., occasionally brn.-blk. to blk.;
 780 - 790 -
               mrlst., brownish-gray to gray, trace of black;
 7901-8001
               mrlst., brn.-qy. to blk.;
 8001-8101
               mrlst., gy. to brn.-gy., occasionally blk., tr. marcasite;
 810'-820'
 8201-8301
               mrlst., as above;
 8301-8401
               mrlst., qy. to brn.-gy.;
 8401-8501
               mrlst., brn.-gy.;
               mrlst., brn.-gy., to brn.-blk., and tr. tuffaceous ss., lt. gy.
 8501-8601
               to gy., v.f.g., silty, slightly calcareous; fractured zone en-
               countered @ 865', making water @ 30-50 gpm (driller's estimate);
               brecciation, limonite coating, calcite coatings, and solution
               features observed in cuttings; lithology is calcareous, tuffaceous
               siltstone, gray, and gray marlstone;
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marlstone, black to dark gray, occasionally light gray, 9681-9711 fine-banded; @ 969'5" is 3/8" thick analcitized tuff bed; @ 970'3 $\frac{1}{2}$ " is a pinkish tuff bed, approx. 3/8" to $\frac{1}{2}$ " thick: 971 - 972 7" marlstone, dark gray to brownish black, fine-banded; 9721.711-9721.811 !" thick gray shale; 972 1811-9791711 marlstone, gray to dark gray, fine-banded; 9791511-9791711 interbedded marlstone, light gray, fine-banded, with some contortion in banding, and light gray to white tuff; 9791711-9804 light gray to white, analcitized tuff (Mahogany Marker); 98011-9861411 maristone, dark gray to brownish black, fine-banded; @ 981'10" is small, vertical fracture; @ 985'2" is thin tuff zone; 986 1411 small cavity, lined with nacholite (?) 986 1611-9911 maristone, gray to brownish black, fine-banded: 9911-993 1511 marlstone, gray to brownish black, fine-banded, with scattered, white bands, $1/8^{11}$ to $\frac{1}{2}^{11}$ thick, and fractured areas; near-vertical fracture from 991' to 991'5"; nearvertical to slightly inclined fracture from 991'10" to 992'5"; fracture @ 45° from 993'3" to 993"5"; a 3" zone filled with asphaltic material and contorted banding from 992'6" to 992'9"; 9931511-9991511 marlstone, brownish black to black, fine-banded; 9991511-10011 missing core 1001'-1017' maristone, brownish black to blue black, generally finebanded; 6" vertical fracture from 1001 to 10016"; @ 1002'7" is 2" fracture zone with fracture @ 45°; @ 1005'7'' to 1006'2'' is fracture with approx. a 60° dip; @ 1011'11" is thin, black shale zone; @ 1016'2" is zone $2\frac{1}{2}$ " thick with nacholite cavities; form 1016'6" to 1016' 10" is a black shale zone;

1017' **-**1034'4''

marlstone, grayish brown to dark gray, fine-banded, with $\frac{1}{4}$ " tuff bed @ 1023'7"; from 1028'8" to 1028'10" is zone

of asphaltic residue and contorted bedding; some solution appears to have occurred in this zone; @ 1032'4" is 1"-2" zone with small, crystal filled cavities;

1035'-

marlstone, light gray to dark gray, fine-banded, from 1036'8" to 1037'4" is light gray, shaley, marlstone; 1044'2" to 1044'6" is contorted zone with areas of black, pyritic material; @ 1047'2" is a 2" zone with trace of material like that from 1044'2" to 1044'6"; from 1049' to 1050' is solution cavity filled with honey-combed material (nacholite cavity?);

1050' -

marlstone, brownish black to black, fine-banded; @ 1052'6'' is 1" thick zone of contorted bedding; from 1054'2" to 1055'2" is zone of contorted and disturbed bedding in light gray to gray marlstone; there is a 3" gray tuff bed from 1055'2" to 1055'5";

1055'5"-

marlstone, gray black to gray, fine-banded, contorted banding in lower 6" of section;

1061'2"-

2 inch zone of black, calcareous shale;

10611411-

marlstone, gray to dark gray, fine-banded;

1064'4''-

no core recovered:

1072'-1082'

marlstone, gray to brownish black, fine-banded, with 6" zone of disturbed bedding from 1074' to 1074'6";

1082'-

marlstone, very light gray to grayish black, fine-banded; from 1083'4" to 1084' (8" thick zone) is disburbed zone; l" thick, analcitized tuff zone @ 1083'5"; lower 8" zone contains numerous, small solution cavities;

MEMORANDUM REPORT

RESULTS OF TESTING DRILL-HOLE FLORENCE 8-1 AND RECOMMENDATIONS

FOR FURTHER DRILLING

INTRODUCTION

The purpose of this report is to discuss the results of testing obtained from exploration well Florence 8-1 drilled on Union Oil Company lands in the Piceance Basin, northwestern Colorado, near the center of Section 32, T. 4 S., R. 95 W. In addition, recommendations are given for additional exploratory well-drilling based on these test results and observations on the hydrogeology of the area made by the writer during July and August of 1973.

Florence 8-1 was drilled to a total depth of 1,102 feet from a land surface elevation of approximately 8142.3 feet above sea level. The upper 880 feet of the borehole is cased with $5\frac{1}{2}$ -inch welded steel casing, and the lower 222 feet is $4\ 3/4$ -inch open hole. The borehole was drilled in the lower part of the Evacuation Creek and upper part of the Parachute Creek members of the Tertiary Green River Formation. The borehole was capped with a rubber well-seal for ease of re-entry. The static water level in the hole was 7,647 feet above sea level, measured on July 30, 1973.

PUMP TEST PROCEDURE AND ANALYSIS

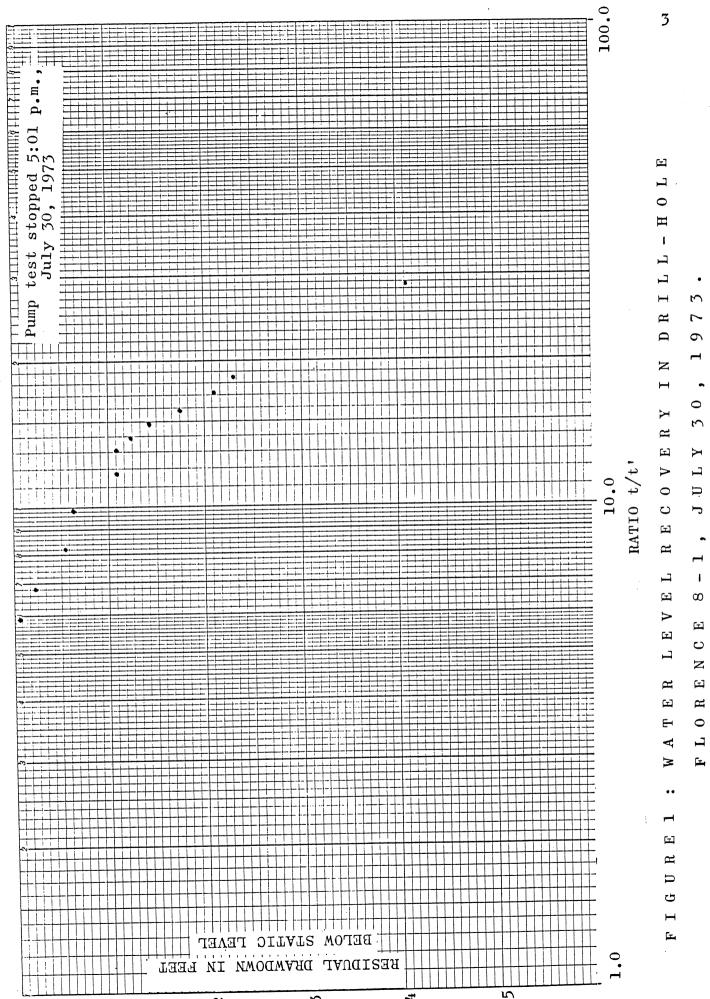
The pump test of Florence 8-1 began at 1:48 p.m. and terminated at 5:01 p.m. on July 30, 1973 for a total duration of 193 minutes. A 600 cubic feet per minute compressor was used to introduce air through the drill pipe at a depth of 620 feet in the borehole. Water was air-lifted out of the borehole at a rate varying from 9 to 28 gpm (gallons per minute). Discharge measurements were obtained with a 5 gallon drum and watch. The average discharge rate for the test was 23.5 gpm.

It is not tenable to obtain meaningful water level draw-down measurements during this type of test. Approximately three hours after the test began, a water sample was collected for chemical analysis. The air compressor was turned off after an elapsed time of 193 minutes, at 5:01 p.m.; seven minutes elapsed while the compressor was disconnected from the drill pipe, and the electric sounder was installed in the borehole. The first water level measurement, obtained at 5:08 p.m., was 499.8 feet below land surface, for a drawdown of 4.05 feet. Maximum drawdown in the borehole during the test was probably two or three times this much.

Water level recovery data from Florence 8-1 was analyzed by plotting on a semilogarithmic graph the residual drawdown, which is the magnitude of drawdown remaining at any time after pumping stopped (t'), versus the ratio of t/t', where t is the elapsed time since pumping started (Figure 1). A straight line was fitted to the data points, and the slope of the straight line was used to compute the transmissivity of the formation.

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Analysis of the recovery data for Florence 8-1 indicates a transmissivity of approximately 1,000 gpd/ft (gallons per day per foot). The water level recovered to the static level 40 minutes after the air compressor was turned off.

Mud circulation was lost while drilling the borehole at a depth of approximately 860 feet, in what is apparently a fracture zone. The casing was set at 880 feet and drilling continued, but circulation was never restored. This indicates that the zones below 860 feet may have the greatest permeability.

HYDROGEOLOGY

Several springs issue from joints in platy marlstone in the canyon floor of the upper reach of the Middle Fork of Parachute Creek, approximately 3,000 feet west of the ridge-top site of Florence 8-1. The springs issue from almost horizontal platy marlstone beds of the Evacuation Creek member, broken by numerous parallel joints striking N. 60° W. and dipping generally 85° SW. The discharge of the springs on August 8, 1973, was estimated to be 30 gpm. The springs discharge at an elevation of approximately 7,650 feet, which is in approximate agreement with the static water level in Florence 8-1.

The total dissolved solids content of the spring discharge, as indicated by electrical conductivity measurements, is approximately 520 ppm (parts per million) which is similar to groundwater pumped from Florence 8-1.

These springs probably represent discharge from the same fracture system penetrated by the Florence 8-1 borehole in the lower portions of the Evacuation Creek member.

CHEMICAL QUALITY OF WATER

Chemical analysis of the water sample collected from Florence 8-1 reveals that the groundwater is a sodium-bicar-bonate water with significant amounts of sulfate (Table 1). In general, the chemical quality of the water is good, with a total dissolved solids content of approximately 580 ppm (parts per million). The total hardness of the water is relatively high (202 ppm) for most industrial uses.

CONCLUSIONS

Limited pump test data indicate that the upper 200 feet of the Parachute Creek member and the lower 100 feet of the Evacuation Creek member contain groundwater of good quality in fractures. The transmissivity of this zone, based on limited test data, is approximately 1,000 gpd/ft. Properly constructed wells tapping this zone might yield 100 gpm or more.

TABLE 1 --- CHEMICAL ANALYSIS OF GROUNDWATER
FROM FLORENCE 8-1, JULY 30, 1973

		CONC	ENTRATION	
CONSTITUENT_		(PARTS	PER MILLION)	,
Regional System of the Control of th				
Calcium			49	
Magnesium			19.0	
Sodium			134	
Carbonate			0	
Bicarbonate			372.7	
Chloride	less	than	4.0	
Sulphate			185	
Nitrate (N)	less	than	0.1	
Boron	·		0.16	
Fluoride			1.37	
Silica			24.0	
Total Hardness as CaCO3	į.		201.5	
Total dissolved solids			579	
Specific conductance (mic	romhos)		1050	
Temperature (°F)			56	
pH		:	7.7	
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Analysis by BC Laboratories, Bakersfield, California

RECOMMENDATIONS

- (1) The most favorable sites for additional drilling for water exploration are in the upper reaches of the Middle Fork of Parachute Creek in the eastern one-half of Section 31, T. 4 S., R. 95 W., in the vicinity of the original Florence drill-hole. Holes should be drilled in the canyon floors, and not on the ridges.
- (2) A minimum borehole diameter of 6-inches is recommended, but an 8-inch diameter is preferred to accommodate testing in multiple zones of the rock sequence, for water sampling purposes, and air-lift pump-testing.
- (3) The exploratory holes should be drilled to the base of the Parachute Creek member, with borehole depths of approximately 1,200 to 1,500 feet, in order to test the water potential in the "leached" zone below the Mahogany zone.
- (4) In order to determine the potential water-bearing zones and their approximate relative permeabilities, several borehole geophysical logs should be conducted, particularly electrical resistivity, temperature, and gamma gamma neutron.

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969-970	19.6	49								
970-971	16.1	43	1							
771-972	10.1	26								
972-973	8.5	- 22	6							
973-974	7.0	18	1.3						ļ	
974-975	6.1							ļ		
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